

# Package: frenchdata (via r-universe)

October 18, 2024

**Title** Download Data Sets from Kenneth's French Finance Data Library Site

**Version** 0.2.0.9200

**Description** Download data sets from Kenneth's French finance data library site  
<[http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data\\_library.html](http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html)>, reads all the data subsets from the file. Allows R users to collect the data as 'tidyverse'-ready data frames.

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**URL** <https://nareal.github.io/frenchdata/>,  
<https://github.com/nareal/frenchdata>

**BugReports** <https://github.com/nareal/frenchdata/issues>

**Depends** R (>= 3.3)

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.1

**Imports** utils, magrittr, tibble, dplyr, tidyr (>= 1.0.0), cli, httr, rvest (>= 1.0.0), stringr, purrr, assertthat, rlang, fs, readr

**Suggests** markdown, rmarkdown, knitr, lubridate, ggplot2

**VignetteBuilder** knitr

**Repository** <https://nareal.r-universe.dev>

**RemoteUrl** <https://github.com/nareal/frenchdata>

**RemoteRef** HEAD

**RemoteSha** f81c4b3b37c795130e62e5242553788b16959787

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|                     |  |
|---------------------|--|
| browse_details_page | <i>Browse the details webpage of a Kenneth's French data set</i> |
|---------------------|--|

---

### Description

Opens the details webpage of a data set on the default browser.

### Usage

```
browse_details_page(fds)
```

### Arguments

fds                    an object of class `french_dataset`

### Value

Does not return a value. Opens the details webpage of a data set on the default browser window.

### Examples

```
if(interactive()){
  ff_3f <- download_french_data('Fama/French 3 Factors')
  browse_details_page(ff_3f)
}
```

---

|                    |   |
|--------------------|---|
| browse_french_site | <i>Browse Kenneth's French data library website</i> |
|--------------------|---|

---

### Description

Opens the data library website on the default browser [https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data\\_library.html](https://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html)

### Usage

```
browse_french_site()
```

**Value**

Does not return a value. Opens the Kenneth's French data library website with the default browser.

**Examples**

```
if(interactive()){  
  browse_french_site()  
}
```

---

download\_french\_data *Download the data set*

---

**Description**

Download the data set

**Usage**

```
download_french_data(  
  dataset_name,  
  dir = NULL,  
  dest_file = NULL,  
  overwrite = FALSE,  
  max_tries = 3  
)
```

**Arguments**

|              |  |
|--------------|--|
| dataset_name | string with the data set name. Use <code>get_french_data_list()</code> to get the list of data sets available to download.   |
| dir          | character. Should be a valid directory path where to save the compressed downloaded file.  |
| dest_file    | character. Should be a valid file name to save the compressed downloaded file. If <code>dir</code> is defined and <code>dest_file</code> is left empty, the original file name will be used. |
| overwrite    | boolean. Overwrite an existing file?   |
| max_tries    | numeric. Number of file download trials.   |

**Value**

An objects of class `french_dataset` with the following elements:

- `info` - holds the information about when and where the information was retrieved.
- `details_url` - url for the webpage with details on data set.
- `subsets` a tibble with with the subsets contained in the downloaded file, the tibble contains a name and data column.

### Examples

```
ff_3f <- download_french_data('Fama/French 3 Factors')
ff_3f
```

---

french\_dataset-class    french\_dataset *S3 class*

---

### Description

The french\_dataset exists to hold the results of reading the files lists of Kenneth's French data library.

It provides a method to print the objects of this class.

### Properties of french\_dataset

Objects of class french\_dataset have:

- A class attribute of french\_dataset.
- A base type of "list" with the following elements:
  - info - holds the information about when and where the information was retrieved.
  - details\_url - url for the webpage with details on data set.
  - subsets a tibble with with the subsets contained in the downloaded file, the tibble contains a name and data column.

### Behavior of french\_dataset

- Pretty prints the object.

---

french\_data\_list-class  
french\_data\_list *S3 class*

---

### Description

The french\_data\_list exists to hold the results of reading the files lists of Kenneth's French data library.

It provides a method to print the objects of this class.

**Properties of french\_data\_list**

Objects of class french\_data\_list have:

- A class attribute of french\_data\_list.
- A base type of "list" with the following elements:
  - info - holds the information about when and were the information was retrieved.
  - files\_list a tibble with with a list of files that can be downloaded, the tibble contains a name, file\_url and details\_url column.

**Behavior of french\_data\_list**

- Pretty prints the object.

---

get\_french\_data\_list *Get list of files available on Kenneth's French data library website*

---

**Description**

Extract the list of files along with a description and links to them and additional information from the data library page of Prof. Kenneth French website.

**Usage**

```
get_french_data_list(max_tries = 3, refresh = FALSE)
```

**Arguments**

|           |   |
|-----------|---|
| max_tries | a number defining the maximum number of tries to perform when downloading the page.   |
| refresh   | logical. If TRUE re-downloads the page and overwrites the cached information. Otherwise use the cached data if a download has been done in the current session. |

**Value**

An object of class `french_data_list` with the following elements:

- info - holds the information about when and were the information was retrieved.
- files\_list a tibble with with a list of files that can be downloaded, the tibble contains a name, file\_url and details\_url column.

**Examples**

```
files_list <- get_french_data_list()
files_list
```

print.french\_dataset    *Generic print method for objects of class french\_dataset*

---

**Description**

Prints an object of class [french\\_dataset](#)

**Usage**

```
## S3 method for class 'french_dataset'  
print(x, ...)
```

**Arguments**

x                    an object of class [french\\_dataset](#)  
...                   other arguments passed to print()

**Value**

Return a tbl\_df/data.frame class object from the subsets element of x.

**Examples**

```
ff_3f <- download_french_data('Fama/French 3 Factors')  
print(ff_3f)  
ff_3f
```

---

print.french\_data\_list  
                          *Generic print method for objects of class french\_data\_list*

---

**Description**

Prints an object of class [french\\_data\\_list](#)

**Usage**

```
## S3 method for class 'french_data_list'  
print(x, ...)
```

**Arguments**

x                    an object of class [french\\_data\\_list](#)  
...                   other arguments passed to print()

**Value**

Return a `tbl_df`/`data.frame` class object from the `files_list` element of `x`.

**Examples**

```
files_list <- get_french_data_list()
print(files_list)
files_list
```

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